

2003 Biometric Consortium, Sept. 24, 2003, Arlington, Virginia

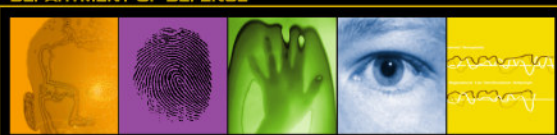


BIOMETRICS
DEPARTMENT OF DEFENSE

Department of Defense (DoD) Common Access Card (CAC) and Biometrics Program Overview

Department of Defense
Biometrics Management Office
<http://www.dod.mil/nii/biometrics>

DEPARTMENT OF DEFENSE



POSITIVE IDENTIFICATION



Min Chong, Task Lead, CAC-BWG
DoD BMO / ISS

Purpose

To provide an overview of the DoD Common Access Card- Biometrics Working Group's (CAC-BWG) efforts in pursuing the inclusion of biometrics technology with the CAC.



Agenda

1. Background
2. CAC-Biometrics Technology Demonstrations
3. Road Ahead

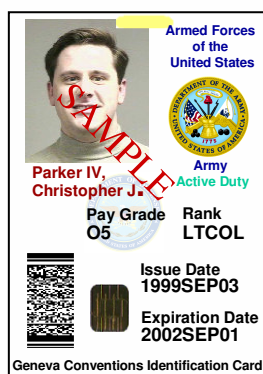


1. Background

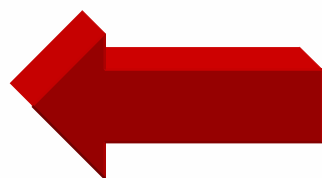


CAC

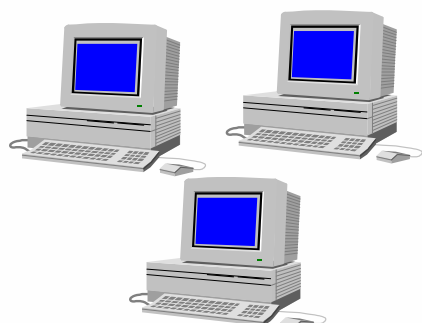
CAC is a Smart Card that serves as...



Personnel Identification
Replaces the "ID" Card



Building Access



Systems & Network Access
with PKI Application Provides:

- Digital Signature
- Data Encryption



CAC and Biometrics Technology Demonstrations

- The CAC-BWG is pursuing the inclusion of biometrics technology, on or with the CAC
- The strategy to achieve a DoD Enterprise CAC-Biometrics solution is a two-phased approach
 - Phase I: Technology Demonstrations
 - Phase II: Demonstrate suitable Enterprise Solution
- The three Technology Demonstration Concepts are:
 1. CAC-A: Biometrics/PIN
 2. CAC-B: Template on CAC Application
 3. CAC-C: Contactless with CAC

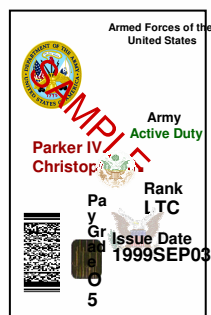


Technology Demonstration

CAC-A (Biometric/PIN)

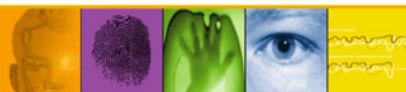
CAC-A

Access to CAC



Biometrics as an
Alternative to the
PIN

- CAC-A focused on development of four scenario proof-of-concept
- Phase I of CAC-A has two distinct parts:
 - Part 1: contractor teams to develop biometrics solutions
 - Part 2: DMDC develops an applet (“Access Control Applet”) that supports a generic/non-proprietary PIN/key solution



Technology Demonstration CAC-A (Biometric/PIN) (cont.)

- The four scenario concepts are:
 1. Store biometrics template on server and perform match operation on server
 2. Store biometrics template on workstation and perform match operation on workstation
 3. Store biometrics template on the CAC and perform the match operation on the server
 4. Store biometrics template on the CAC and perform the match operation on the CAC



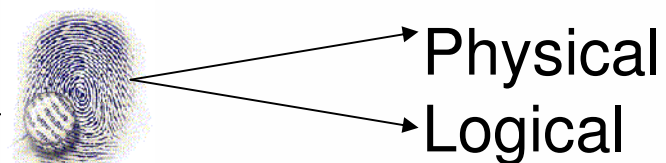
Technology Demonstration

CAC-B (Template on CAC Application)

CAC-B



Biometric On CAC



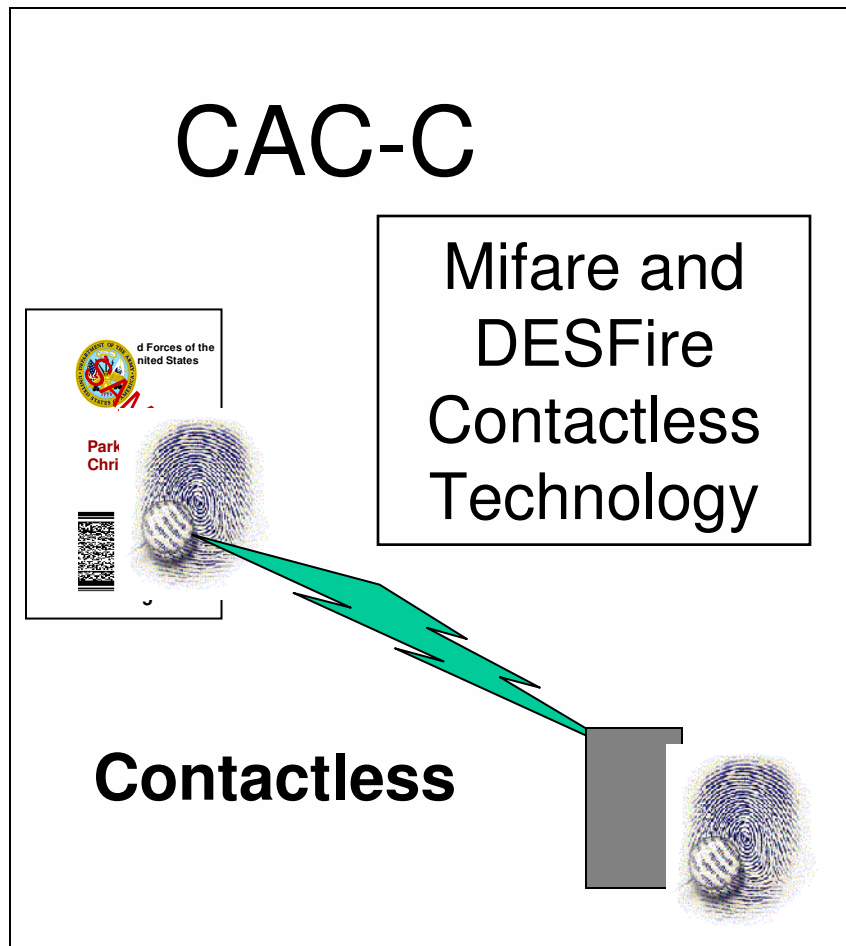
The CAC as a
carrier for the
Biometrics

- CAC-B is a follow on effort from CAC-A Scenario 3
- CAC-B focuses on placing the Biometric Attribute Certificate on the CAC
 - Logical Access
 - Physical Access
- Coordinating approval process for Phase II



Technology Demonstration

CAC-C (Contactless with CAC)



- CAC-C focuses on three biometrics contactless solution:
 - Physical Access System
 - Portable Physical Access System
 - Physical Access System that uses a turnstile
- Goal of CAC-C is to provide an interoperable contactless physical security solution
- Evaluation in progress



CAC-A /B Phase II Efforts

- Merge CAC-A and B into one Phase II effort
- CAC-A/B Phase II Effort is a three part process
- Part 1: Concept Exploration
 - Match-On-Card Capability
 - Match-Off-Card Capability
- Part 2: Technology Development
 - Develop Prototype Capability
- Part 3: Initial Operating Capability
 - Develop Target IOC System
 - Demonstrate Integration and Interoperability



Summary

- Biometrics on or with the CAC may open the door to enterprise use of biometrics throughout the DoD
- The use of CAC with the biometrics authentication capability is vital to achieving a secure Information Assurance posture for the Defense Information Infrastructure

